

ABSTRACT

A method for forming a pultruded part includes collating reinforcing fibers by providing a first layer of reinforcing rovings extending in the longitudinal pultrusion direction, applying onto the first layer an intermediate layer of reinforcing
5 fibers at least some of which include at least portions thereof which extend in the transverse direction and covering the intermediate layer with a second layer of rovings extending in the longitudinal direction. Alternatively the transverse fiber layer is formed on the inside surface of a hollow part. To the collated fibers is applied a urethane resin so as to permeate through the layers and the materials are passed
10 through a die to form a thermo-set cross-linked poly-urethane. The transverse layer or layers are relatively thin having a weight less than or equal to 0.5 ounces per square foot and more preferably as low as 0.25 ounces or 0.1 ounces.